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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/754,145 | 01/09/2004 | Benjamin C. Reed | ARC920030106US1 | 7481 |
| 61642 | 7590 | 01/22/2010 | | |
| LEONARD T. GUZMAN | | | EXAMINER | |
| IBM CORP., LAW DEPT., C4TA/J2B | | | TRUONG, LECHI | |
| 650 HARRY ROAD | | | | |
| SAN JOSE, CA 95120-6099 | | | ART UNIT | PAPER NUMBER |
| | | | 2194 | |
| | | | NOTIFICATION DATE | DELIVERY MODE |
| | | | 01/22/2010 | ELECTRONIC |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ARCIPL@us.ibm.com
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| | | | |
|------------------------------|--------------------------------------|------------------------------------|--|
| Office Action Summary | Application No. 10/754,145 | Applicant(s) REED ET AL. | |
| | Examiner LECHI TRUONG | Art Unit 2194 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 November 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claim 23 is presented for the examination.

Claim objected

2. Claim 23 is objected to because of the following informalities: It is not clearly to indicate that the claim 23 is system claim or product claim. Appropriate correction is required to change from “A compute program product” to” A computer system”.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

hardware

4. Claim 23 is rejected under 35 U.S.C. 101 because the claimed invention is directed to apparatus claims, but appearing to be comprised of software alone without claiming associated computer hardware required for execution. For example, claim 6 defines “apparatus” in the preamble and the body of the claim recites “computer readable codes”. Computer readable code appears to be software module. Therefore, claim 23 is non-statutory because it recites a claim that comprises software per se embodiments.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bodin (US 7398305 B2) in view of Atwal (US 20030061067 A1).

As to claim 23, Bodin teaches invention substantially as claimed including : local service(service, col 8, ln 5-14), a service registry(service registry, col 8, ln 5-14), a client bundle(bundle for a client device, col 1, ln 31-37/ a bundle, col 8, ln 5-14), obtaining the at least one local service from a service registry via the client bundle(col 8, ln 5-14), invoking the at least one local service via the client bundle(When the customized programming is installed on the user's services gateway, the customized programming registers services within the customized programming with the services registry making the services available for execution by calling the hook, col 12, ln 60-65/ executing (854) the configuration bundle (122) includes calling (160) the associated hook (858), thereby executing (862) the customized programming (752). In many examples of the method of FIG. 2, calling (160) the associated hook (860) includes calling predefined interfaces or interface member methods and a predefined class, Col 11, ln 20-25/ The configuration bundle (122) includes a hook (858). A hook (858) is a call from within a configuration bundle to one or more executable software programs, col 19, and ln 65-67).

Bodin does not teach receiving a call for the at least one web service , where the call comprises a request and a response, delegating a call to a client bundle, returning a response from the invoked method on the at least one web service. However, Atwal teaches receiving a

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call on the at least one web service, where the call comprises a request and a response, delegating a call to a client bundle, returning a response from the invoked method for the at least one web service (send a method call to a web service, col 5, ln 40-50/ The web services interface unit 312 receives the requested web service API contract from the web service 25 (654) in response to the APLI request. The web services interface unit 312 passes the API contract to the communication processor 311 to be passed back to the client application interface unit 310. The client application interface unit 310 sends the response through the appropriate client application 31 to the client application 15 from which the API request originated, col 8, ln 56-65/

Identifications of the methods of the web services are stored in the repository and grouped into bundles. A bundle of methods contains one or more methods from one or more web services. For example, consider four web services where a first web service contains 10 methods, a second web service contains 20 methods, a third web service contains 100 methods, and a fourth web service contains 50 methods, col 21, ln 45-55/ The bundles 1802 comprise web services methods or routines 1803 which a client application 15 may use when calling web services service methods 1803, col 21, ln 65-67 to col 22, ln 1-5/ Subscribed client applications are given access to method calls 1803 of web services contained in bundles 1802 of a package 1801 to which they are a subscriber (1902). Access to web services method calls 1803 contained in the bundles 1802 is metered (1903), col 23, ln 33-49/delegating the processed communication to the web service, col 3, ln 22-25/ if a client application's billing type specifies that the client application has paid a certain fee which allows the client application to make X number of calls to a bundle of methods, col 23, ln 17-22).

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It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the teaching of Bodin with Atwal to incorporate the feature of receiving a call for the at least one web service, where the call comprises a request and a response, delegating a call to a client bundle, returning a response from the invoked method on the at least one web service because this desirables to provide means for better managing functionality for web services.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is (571) 272-3767. The examiner can normally be reached on 8 - 5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sough Hyung can be reached on (571) 272-6799. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIP. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIP system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

/LeChi Truong/

Primary Examiner, Art Unit 2194

LeChi Truong

January 20, 2010